

Abstract of the Disclosure:

A data-processing device, in particular a network processor for processing layer 1 to 7 of protocol stacks in applications such as LAN, ATM switches, IP routers or frame relays which are based on DSL, Ethernet or cable modems. The processor has
5 instruction buffers, instruction decoders, and instruction-execution units corresponding to a number of processes to be processed in parallel. A program flow control unit essentially controls the parallel processing.

F O R S E C R E T

WHS:tk - 00p1031F//1/11/2001